TSW-1052

10.1” Touch Screen

Advanced Touch Screen Control

A Crestron® touch screen offers an ideal user-interface for controlling all the technology in your home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way you use technology. For controlling audio, video, lighting, shades, HVAC, security, and other systems, Crestron touch screens are fully-customizable with easy-to-use controls and icons, true feedback and real-time status display, live streaming video, voice recognition, Web browsing, and advanced navigation of digital media servers, tuners, and other devices.

With its clean, contemporary design highlighted by edge-to-edge glass and stunning HD color graphics, the Crestron TSW-1052 touch screen makes an elegant statement on any wall, tabletop, or lectern. Perfectly at home in the most contemporary residence or modern office building, its high-tech good looks underline its power for simplifying everyday tasks and functions throughout any facility.

The TSW-1052 delivers the ultimate touch screen experience in an unobtrusive, space-saving design featuring a brilliant, high-definition 10.1 inch capacitive touch screen display and 5 soft-touch buttons. PoE connectivity and a range of mounting options make installation a breeze for both new and retrofit applications. Additional features include voice recognition, high-performance H.264 video, Rava™ SIP Intercom, Web browsing, audio feedback, and advanced Smart Graphics™.

Smart Graphics™[1]

Crestron touch screens use Smart Graphics to deliver the ultimate user experience *and* the ultimate value by enabling the creation of dynamically rich user interfaces with incredible efficiency and unparalleled functionality. Using Smart Graphics, programmers can swiftly integrate fluid gesture-driven controls, animated feedback, metadata, embedded apps, and full-motion video for a deeply engaging and ultra-intuitive touch screen experience.

Crestron Smart Graphics include the following enhancements:

- Cool-looking graphical buttons, sliders, knobs, and gauges are intuitive and fun to use.
- Kinetic effects enhance the feeling of realism with lists and toolbars that scroll with momentum at the flick of a fingertip.
- Drag-and-drop objects snap into place offering an easy way to switch sources.
- Dashboard widgets personalize the touch screen with clocks, weather, news, and other information.
- Power-saving screensaver allows display of time, temperature, and other text content at a reduced brightness level
- Customizable themes allow a completely different look and feel for every user, event, or season.
- Fully-developed SmartObjects™ enable sophisticated control over complex devices with minimal programming.

Soft-Touch Buttons

The TSW-1052 includes five soft-touch capacitive buttons for quick access to commonly used functions. The buttons are pre-labeled with icons for "Power", "Home", "Lights", "Up", and "Down" functions. Each

functionality.

Voice Recognition

As an alternative to pressing buttons and scrolling through lists, the TSW-1052 provides the ability to simply use voice commands to control virtually anything. Voice recognition can be used to quickly select and play a specific media title or playlist, change the television or radio channel, choose a lighting scene, lock the doors, or enter a password. Simply press the Voice Recognition button and say a command and Crestron does the rest.

Streaming Video

High-performance streaming video capability makes it possible to view security cameras and other video sources right on the touch screen. Native support for H.264 and MJPEG formats allows the TSW-1052 to display live streaming video from an IP camera, a streaming server (Crestron CEN-NVS200 or similar[2]), a DigitalMedia™ switcher, or a Capture HD® system. Video is delivered to the touch screen over Ethernet, eliminating the need for any extra video wiring.

Rava™ SIP Intercom

Rava SIP Intercom Technology enables hands-free VoIP communication between any two Rava-enabled Crestron touch screens. Rava works over Ethernet, supporting 2-way intercom, video intercom[3], and paging without any special wiring. VoIP phone capability is also possible through integration with an SIP-compatible IP phone system or SIP server, allowing hands-free telephone functionality complete with speed-dialing, caller ID, custom ringers, and other enhancements. Built-in echo cancellation affords true-duplex performance for clear, seamless voice communication using the TSW-1052's integrated microphone and speakers.

Web Browsing

Its built-in Web browser allows the TSW-1052 to be used to access the Internet, providing a useful utility for quickly checking on social media sites, online auctions, stocks, sports, and other online information.

On-Screen Keyboard

On-screen keyboard capabilities provide for entry of passwords, URLs, and text search items in a range of international languages.

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Audio Feedback
Customized audio files can be loaded to add another dimension to the touch screen graphics using personalized sounds, button feedback, and voice prompts.

Single-Wire Connectivity
A simple Ethernet LAN connection is all that is required to wire the TSW-1052, containing all control, video, intercom, and power signals within a single wire.

Power over Ethernet
Using PoE technology, the TSW-1052 gets its operating power right through the LAN wiring. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE Injector (PWE-4803RU[2]) simply connects in line with the LAN cable at a convenient location. Crestron PoE switches (CEN-SW-POE-5 or CEN-SWPOE-16[2]) may also be used to provide a total networking solution with built-in PoE.

Simple, Versatile Mounting
Using the bracket provided, the TSW-1052 installs easily over a 2-gang or 3-gang electrical box, or a 2-gang European electrical box. It can also be attached directly to drywall and other surfaces over the front of a 2-3/8" H x 3-3/8" W (60mm H x 86mm W) cutout. When installed, it protrudes just 1/2 inch from the mounting surface and is magnetically adhered to its mounting bracket, eliminating any visible screws for an ultra clean appearance.

Crestron also offers the TSW-UMB Universal Mounting Bracket[2], which provides a post-construction wall mounting solution that can accommodate a variety of current and future Crestron devices including the TSW-1052. The TSW-UMB makes it easy to change devices at any time without having to cut or patch the wall, or order any additional mounting hardware. For a pre-construction mounting solution, the TSW-UMB can be used along with a TSW-UMB-PMK Pre-Construction Mounting
Kit[2]. Masonry and concrete applications can be accommodated using the TSW-UMB along with a TSW-550-BBI back box[2].

Replacing an older Crestron touch screen with a new TSW-1052 can be made simple using a TSW-RMB Retrofit Mounting Bracket. A variety of adapter brackets are available to enable easy installation of the TSW-1052 right over the existing back box, mounting kit, or cut-out.

TableTop Option
Using the optional TableTop Kit (TSW-1050-TTK[2]), the TSW-1052 becomes a stylish, freestanding touch screen that fits perfectly on a table, desk, or countertop. It can even be permanently attached to the surface using the optional Swivel Mount Kit
(TSW-550/750/1050-SMK[2]).

> Ultra clean, modern appearance

> Thin profile and compact footprint

> Affordable and easy to install

> 10.1" widescreen active-matrix color display

> 1280 x 800 WXGA display resolution

> Capacitive touch screen technology

> Smart Graphics™ support[1]

> High-performance H.264 streaming video

> Voice recognition capability

> Web browsing

> On-screen keyboard

> Customizable screensaver

> Built-in microphone and speakers

> 5 soft-touch capacitive buttons

> Single-wire Ethernet connectivity

> PoE network powered

> Supports US or European electrical wall box mounting

> Can be mounted directly to drywall or paneling over a cutout

> Compatible with TSW-UMB Universal Mounting Bracket[2]

> Compatible with TSW-RMB Retrofit Mounting Brackets[2]

> Pre-construction and masonry mounting options available[2]

> Available tabletop and swivel mount options[2]

> Available in smooth black or white finish

SPECIFICATIONS

Touch Screen Display

Display Type: TFT Active matrix color LCD
Size: 10.1 inch (257 mm) diagonal
Aspect Ratio: 16:10 WXGA
Resolution: 1280 x 800 pixels
Brightness: 400 nits (cd/m²)
Contrast: 800:1
Color Depth: 24-bit, 16.7M colors
Illumination: Edgelit LED
Viewing Angle: ±80° horizontal, ±80° vertical
Touch Screen: Projected Capacitive

Buttons

Hard Keys: (5) Projected capacitive pushbuttons, programmable, pre-labeled with icons for “Power”, “Home”, “Lights”, “Up”, and “Down”
Reset: (1) Miniature pushbutton on rear panel for hardware reset

Memory

LPDDR2 RAM: 1 GB
Flash: 4 GB
Maximum Project Size: 512 MB

Graphics Engine

Supports Smart Graphics™ [1], multi-language Web browser, multi-language on-screen keyboard, screensaver

Languages

Touch Screen & Web Browser: TBA
On-Screen Keyboard: Arabic, Chinese Simplified, Croatian, Czech, Danish, Dutch, English UK, English US, Finnish, French Canada, French switzerland, German, Hebrew, Hungarian, Italian, Japanese, Norweigian Bokmal, Polish, Portuguese, Russian, Serbian, Spanish, Swedish, Turkish

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Voice Recognition: English (US), English (UK), English (Canada), English (India), English (Australia), English (New Zealand), English (Generic), French (France), German (Germany), Dutch (Netherlands), Russian (Russia), Czech (Czech Republic), Spanish (Spain), Italian (Italy), Chinese, Mandarin (China, Simplified), Chinese, Mandarin (Hong Kong, Simplified), Chinese, Mandarin (Taiwan, Traditional), Chinese, Yue (Hong Kong, Traditional), Japanese (Japan), Korean (South Korea), Polish (Poland), Portugese (Brazil), Turkish (Turkey), isiZulu (South Africa) = zu, English (South Africa) = en_ZA, Afrikaans (South Africa) = af

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, IEEE 802.3af and 802.3at Type 1 compliant

Video

Streaming Formats: H.264 (MPEG-4 part 10 AVC), MJPEG

Audio

Features: Built-in microphone and speakers, Rava™ SIP Intercom, multi-language voice recognition
Audio Feedback Formats: MP3

Connectors

LAN PoE: (1) 8-wire RJ45 with 2 LED indicators; 10Base-T/100Base-TX Ethernet port, Power over Ethernet compliant; Green and yellow LEDs indicate Ethernet port status

Power Requirements

Power over Ethernet: IEEE 802.3at Type 1 (802.3af compatible) Class 3 (12.95W) PoE Powered Device

Environmental

Temperature: 32° to 112°F (0° to 45°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 44 BTU/hr

Enclosure

Construction: Plastic, smooth black or white finish
Mounting: Surface mount over a 2 or 3-gang electrical box, 2-Gang European (DIN 49073) electrical box, or 2-3/8” H x 3-3/8” W (60mm H x 86mm W) cutout; additional wall mount and tabletop options available separately

Dimensions

Height: 6.46 in (164 mm)
Width: 10.12 in (257 mm)
Depth: 2.03 in (52 mm)

Weight

23.9 oz (675 g)

Available Models

TSW-1052-B-S: 10.1" Touch Screen, Black Smooth [Available May, 2014]
TSW-1052-W-S: 10.1" Touch Screen, White Smooth [Available May, 2014]

Available Accessories

TSW-1050-TTK-B-S: TableTop Kit for TSW-1050, Black Smooth
TSW-1050-TTK-W-S: TableTop Kit for TSW-1050, White Smooth

TSW-550/750/1050-SMK: Swivel Mount Kit for TSW-550-TTK, TSW-750-TTK & TSW-1050-TTK
TSW-UMB: Universal Mounting Bracket for TSW-x50 Series
TSW-UMB-PMK: Pre-Construction Mounting Kit for TSW-UMB
TSW-550-BBI: Wall Mount Back Box for TSW-550 & TSW-UMB - International Version
TSW-1050-RMB-3: Retrofit Mounting Bracket - Converts APAD, CT/LC-1000, TPS-2000L, or TPS-4L to TSW-1050
TSW-1050-RMB-4: Retrofit Mounting Bracket - Converts TPS-6L to TSW-1050
TSW-1050-RMB-5: Retrofit Mounting Bracket - Converts TPS-3100L to TSW-1050
PWE-4803RU: PoE Injector
CEN-SW-POE-5: 5-Port PoE Switch
CEN-SWPOE-16: 16-Port Managed PoE Switch
CEN-SWPOE-24: 24-Port Managed PoE Switch [Limited Supply]
CEN-NVS200: Network Video Streamer
CEN-NVS200-PWE: Network Video Streamer w/PoE Injector
SW-VMK-WIN: TouchPoint® Virtual Mouse & Keyboard Software for Windows®

Notes:
1. Supports Smart Graphics only. Not compatible with "traditional" UI projects.

2. Item(s) sold separately.

3. H.264 compatible IP camera required.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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